MIMOS Virtual Private Network (Mi-VPN)

Secured digital communication of information is critical for sectors dealing with high sensitivity and crucial data such as finance, public safety and military. Due to this, the integrity of communication and the data in motion need to be secured. MIMOS Mi-VPN provides a secured communication solution that leverages on Open SSL protocol and MIMOS crypto libraries.

Overview

MIMOS Mi-VPN is a flexible Virtual Private Network (VPN) that secures communication between two or more sites using SSL protocol. Data in motion is also protected by encryption. With Mi-VPN, enterprise and national security organisations can ensure safe and secure communication between two remote sites. Such highly guarded data contained within the communication channel is also well-protected.

Features

Mi-VPN comprises the following features:

- **VPN Connections Management**

  Mi-VPN allows users to easily set up, configure, and manage multiple VPN connections.

- **Locally Designed Cipher**

  By using CIKU, users get a locally designed cipher that is as strong as AES.

- **Various Cipher Support**

  Mi-VPN supports CIKU, AES and other OpenSSL ciphers.

- **Key Size Support**

  The supported key sizes for CIKU and AES are 128, 192 and 256 bits.

- **Configurable VPN Connections**

  VPN connections can be setup as Roadwarrior and Gateway-to-Gateway.

- **Optional Integration with MIMOS Accelerator Library**

  Mi-VPN can be integrated with MIMOS Mi-AccLib to leverage on GPU performance.

Technology Benefits

The main impacts of Mi-VPN are:

- **Homegrown and Industry Ciphers**

  Mi-VPN uses homegrown as well as industry ciphers that protect communication between two or more parties.

- **Secure Communication Configuration**

  Point-to-Point (Roadwarrior) and Gateway-to-Gateway configuration are offered to secure communication between sites.

- **Third Party Platform Integration**

  IPCop/IPFire is a secure operating system that integrates well with Mi-VPN to offer secure communication, monitoring and value-added trusted communication.

Technology Summary

Mi-VPN

A virtual private network using SSL protocol to securely connect two or more parties.
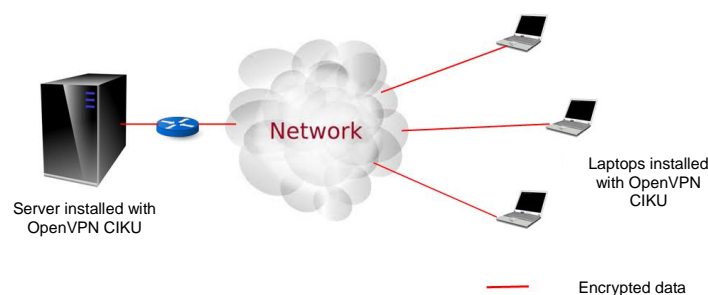
Industries: Public Safety, Government, Enterprise

Features
- VPN connections management
- Locally designed cipher
- Various cipher support
- Key size support
- Configurable VPN connections
- Optional Integration with MIMOS accelerator library

Technology Benefits
- Homegrown and industry ciphers
- Secure communication configuration
- Third party platform integration

Server installed with OpenVPN CIKU

Network

Laptops installed with OpenVPN CIKU

— Encrypted data

MIMOS Mi-VPN Roadwarrior configuration

System Requirements

Mi-VPN		
32-bit Operating System Requirements		
System	**Linux**	**Windows**
Processor	Intel® Celeron	Intel® Celeron
Memory	1GB RAM	1GB RAM
Disk Storage	100GB	100GB
Gateway Configuration	≥ 2 Ethernet ports	≥ 2 Ethernet ports
Host/Client Configuration	≥ 1 Ethernet ports	≥ 1 Ethernet port
Operating System	Kernel 2.4.x	Windows® XP/7
64-bit Operating System Requirements		
System	**Linux**	**Windows**
Processor	Intel® Dual-Core	Intel® Dual-Core
Memory	4GB RAM	4GB RAM
Disk Storage	100GB	100GB
Gateway Configuration	≥ 2 Ethernet ports	≥ 2 Ethernet ports
Host/Client Configuration	≥ 1 Ethernet ports	≥ 1 Ethernet port
Operating System	Kernel 2.4.x	Windows® XP/7

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